## TSS Compliance for Powell River Watershed

The Powell River Watershed TMDL Report identifies TSS as a stressor in the watershed and establishes a TSS Wasteload Allocation (WLA) for coal mining of 845,180 kg/year. The most recent TSS Wasteload Report available from MLR shows a wasteload of 536,240 kg/year from permitted mining, which is approximately 65% of the WLA. This indicates that 308,940 kg/year of capacity remains. The projected wasteload from proposed outfall 003 (Pond 3) is 274.02 kg/year and from proposed outfall 004 (Pond 4) is 324.85 kg/year, which totals 598.87 kg/year addition to the Powell River Watershed, (0.2% of the remaining capacity), therefore the proposed discharge will not result in an exceedance of the WLA and no offset is required. The proposed wasteload calculation was derived from the following: (Watershed Acres x Estimated Flow x Estimated Concentration x Conversion).

**TOTAL SUSPENDED SOLIDS FOR CALLAHAN CREEK WATERSHED**

| Sediment Structure | Watershed Size (Acres) | Estimated Flow (LPM) | Estimated Concentration (mg/L) | Wasteload in mg/l | Estimated Wasteload Change (kg/year) | Watershed Name |
|---|---|---|---|---|---|---|
| 3 | 7.87 | 14.90 | 35 | 521.34 | 274.02 | Powell River |
| 4 | 9.33 | 17.66 | 35 | 618.06 | 324.85 | Powell River |

In addition to the sediment control measures, BMP (Best Management Practices) will also be utilized within the disturbed mining area to prevent additional contributions of solids to stream flow and to minimize erosion to the extent possible. These BMP methods and practices include, but are not limited to:

1) Disturbing the smallest area at any one time during the mining operation through progressive backfilling, grading, and prompt revegetation;

2) Stabilizing the backfill material to promote a reduction in the rate and volume of runoff;

3) Diverting runoff away from disturbed areas;

4) Directing water and runoff with protected channels;

5) Using straw, mulches, vegetative filters, and other measures to reduce overland flow; and,

6) Reclaiming all lands disturbed by mining as contemporaneously as practicable.